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Extract from the last Will and Testament of THOMAS B. WILSON, deceased, late of Newark, State of Delaware, and on record in the Register's Office, Newcastle, Delaware.

"I will and bequeath to the Academy of Natural Sciences, of Philadelphia, my collection of Birds and all my other specimens of Natural History deposited by me in the hall or building of the said Academy of Natural Sciences, on Broad street, Philadelphia. And I further give and bequeath to the said Academy of Natural Sciences of Philadelphia, the sum of Ten Thousand dollars, to be by them invested in some safe and productive fund, and as often as it may be necessary to change the said investment, to re-invest the said sum in like manner; which fund shall be called the Library Fund, and the income therefrom shall be exclusively appropriated to the purposes, preservation and income of the Library of the said Academy, in the following manner: Three hundred dollars of the yearly income arising therefrom, I direct to be paid as a yearly salary to a Librarian, to be appointed by the said Academy, whose duties shall be by them fixed and determined; and the residue of the yearly income arising from the said fund I direct to be applied, *firstly*, to the continuance, by purchase, of such works published periodically or in numbers as are now contained in and belonging to the Library of the said Academy. And, *secondly*, to the purchase and procuring of such works relating to Natural History as may be designated and selected by the said Librarian and the Library Committee of the said Academy jointly."

The said Will is dated the seventeenth day of March, Anno Domini, one thousand eight hundred and fifty-four, (1854.)

Attest,

RATHMELL WILSON,
Surviving Executor.

April 25th.

The President, DR. BRIDGES, in the Chair.

Eighteen members present.

On the favorable report of the respective Committees, the following papers were ordered to be published:

Diagnoses Specierum et Varietatum novarum MOLUSCORUM, prope Sinum Pugetianum a Kennerlio Doctore, nuper decesso, collectorum.

SCRIBEBAT PHILIP P. CARPENTER, B.A., PH.D.

Academice Alumnus Correspondens.

SHÆNIA OVOIDEA, n. s.

S. t. parvâ, albidâ, ovoideâ; epidermide cinereâ, parum rugosâ, indutâ; marginibus, antico et ventrali regulariter excurvatis; dorsalibus rectis ad angulum circiter 150°; parte posticâ angustiore, obtuse angulatâ, parum truncatâ; umbonibus prominentibus, circiter ad duas inter quinque partes totius longitudinis sitis; intus, laminâ cartilagineâ latâ, parum extante; sinu pallii ovali, usque ad medium interstitii porrecto. Long. .3, lat. .16, alt. .09, *poll.*

Hab.—In sinu Pugetiano specimen unicum piscavit Kennerley.

A "Sph. ?Binghami" Searles Wood Crag Moll., vix differt.

NÆERA PECTINATA, n. s.

N. t. globosâ, albidâ, subdiaphanâ; epidermide tenui indutâ; ventraliter antice productâ, postice subito angustato, rostrato; rostro haud insculpto, duabus inter quinque partes totius longitudinis æquante; parte globosâ acute costatâ; costis posticis paullum majoribus, magis distantibus; margines dor-

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sales versus obsoletis; interstitiis latis, quadratis, minutissime concentricè striatis; costis principalibus t. jun. xii.—xv., adultâ, aliis crebre intercalantibus, circ. xxx., quarum primi majores: intus, laminâ cartilagineâ curtâ, sub umbones celatâ; dente postico satis elongato, regione adductoris intus claviculato; cicatricibus adductoribus subrotundatis, deorsum sitis; sinu pallii parvo, lato: margine à costis pectinato. Long. .24, lat. .14, alt. .12.

Hab.—In sinu Pugetiano specimen junior legit Kennerley. Apud insulam Catalinam et Sanct. Barbaram adultum piscavit Cooper.

Genus PANDORA.

Subgenus KENNERLIA.

Testa Pandoris veris simillima; cartilago ossiculam gerens; ligamentum elongatum. tenuissimum; lamina externa prismatica valvâ planatâ plerumque radiatim sulcata; cardo simplex; linea pallii haud sinuata.

Ex.—*Kennerlia filosa*.

Kennerlia bicarinata. [?An *P. bilirata*, Conr., æqualis.]

Kennerlia glacialis.

KENNERLIA FILOSA, n. s.

K. t. tenui, planoconvexâ, maxime rostratâ; marginibus dorsalibus rectis, ad angulum circ. 160°; ventrali regulariter et modice excurvato, postice vix sinuato; epidermide olivaceâ, plerumque erosâ, postice corrugatâ; laminâ externâ prismaticâ spongiosâ, valvâ planatâ radiatim sulcatâ, (quasi filosâ,) sulcis distantibus; valvâ convexâ costâ obtussissimâ postice decurrente; lineis seu undis incrementi conspicuis: intus, dente cardinali uno, parvo, extante; callositate claviculoideâ anticâ, margini contiguâ; fossâ cartilaginâ postice sitâ; cicatricibus adductoribus rotundatis, margini dorsali contiguâ; lineâ pallii simplici. Long. .8, lat. .4, alt. .12.

Hab.—In sinu Pugetiano satis rarè piscavit Kennerley.

PSAMMOBIA RUBRORADIATA, (Nutt. MS.)

Ps. t. seu omnino lilacinâ, seu albidâ, lilacino plus minusve radiatâ; magnâ, solidâ, latâ, subæquilateralî, haud planatâ, rugis incrementi irregularibus instructâ; epidermide olivaceâ indutâ; marginibus, dorsalibus antice et postice rectis, ad angulum 160°, umbonibus prominentibus, obtusis; ventrali subplanato, antico rotundato, postico subquadrato: intus, albidâ; dentibus cardinalibus utrâque valvâ duobus, parvis; nymphis planatis, latioribus, ligamento extante; cicatricibus adductoribus, antico ovali, postico rotundato; sinu pallii subquadratâ, usque ad medium porrectâ, à margine ventrali lineâ solum separatâ; costis duabus ab umbonibus ad marginem internum cicatricum diagonaliter decurrentibus.

== "*Sanguinolaria rubro-radiata*, Conr." [ubi] Nutt. MS.; B. A. Rep., p. 195.

MACOMA YOLDIFORMIS, n. s.

M. t. parvâ, valde transversâ, subplanatâ, yoldiformi; albâ, tenui, subdiaphanâ, politissimâ; epidermide nitente, pallide stramineâ indutâ; lineis incrementi, postice conspicuis, exceptis, lævi; parum inæquilateralî, umbonibus postice inflectis; marginibus undique (regione ligamenti exceptâ) regulariter excurvatis: intus, nymphâ ligamentali concavâ, subcelatâ; postice sectâ, dein parum alatâ; dentibus cardinalibus valvâ sinistrali ii., quorum unus bifidus; margine dorsali antico excurvato; sinu pallii obscure triangulato, paullo plus quam duas trientes interstitii inter cicatrices adductores minores porrecto. Long. .68, lat. .4, alt. .15.

Hab.—In Pacifico Boreali primum piscavit Belcher: dein valvas duas in sinu Pugetiano, Kennerley: postea prope San Diegonem, Cooper: rarissime. 1865.]

MACOMA (?var.) EXPANSA.

M. t. "*M. proximæ*" simili, sed majore, multo tenuiore; antice minus, postice plus expansa, regulariter excurvatâ; t. jun. subdiaphanâ, subepidermidem tenuem, stramineam, subnacreâ; t. adultâ albâ, nitidâ; dentibus cardinalibus ii.—i. minimis, haud bifidis; sinu pallii valvâ alterâ per tres quadrantes, alterâ per quinque inter septem partes interstitii porrecto. Long. 1.55, lat. 1.13, alt. .5.

Hab.—In sinu Pugetiano rarissime legit Kennerley.

A "*M. latæ*, Gmel." Desh. MS. in Mus. Brit. vix differt, specimine Grœnlandico; sed *M. latæ* et *calcaræ* in Mus. Cumingiano texturâ et dentibus haud convenit. Species quædam hujusce formæ, extus similiores, intus dentibus et sinu pallii satis differunt.

(TELLINA) ANGULUS MODESTUS, n. s.

A. t. "*A. tenero*," Sayii simillimâ; sed callositate conspicuâ internâ anticâ ab umbonibus decurrente, sinum pallii et cicatricem adductorem utrâque valvâ separante; parvâ, subdiaphanâ, nitidissimâ, donaciformi; epidermide corneâ tenuissimâ, striulis incrementi, plus minusve conspicuis, indutâ; margine antico dorsali subplanato; umbonibus extantibus; areâ posticâ truncatâ, haud acute definitâ; margine ventrali subplanatâ: intus, dentibus cardinalibus utrâque valvâ ii., quorum alternati bifidi; valvâ sinistrâ lat. antico curto, extante, contiguo, posticis nullis; sinu pallii usque ad callositatem porrecto; nymphis paullum concavis. Long. .36, lat. .22, alt. .08.

Hab.—In sinu Pugetiano, specimina duo juniora legit Kennerley.

ANGULUS MODESTUS, var. OBTUSUS.

A. t. "*A. modesto*" simili; sed majore, umbonibus obtusis, vix donaciformi, marginibus dorsalibus et ventrali excurvatis; candidiore, vix diaphanâ; epidermide pallidissime stramineâ. Long. .72, lat. .44, alt. .15.

Hab.—In sinu Pugetiano legit Kennerley; apud "Neah Bay," Swan; prope S. Pedro, Cooper.

?CLEMENTIA SUBDIAPHANA, n. s.

?C. t. ovali, quoad genus valde transversâ, tumidâ, tenuissimâ; pallide cinereâ, epidermide pallide stramineâ; subdiaphanâ, sed subcalcareâ, haud porcellanâ; lævi, nisi striis incrementi; haud lunulatâ, umbonibus satis prominentibus: intus, valvâ dextrâ, dentibus anticis duobus acutis, contiguis, elevatis, postico elongato, acuto, bifido, ligamento parallelo; valvâ sinistrâ dentibus anticis duobus, umbonem versus junctis, acutis, divergentibus, postico elongato, acuto, simplici; sinu pallii, ut in *Dosiniâ*, angusto, angulato, per dimidium interstitii umbones versus porrecto. Long. .72, lat. .58, alt. .34.

Hab.—In sinu Pugetiano specimina quædam, plerumque juniora, piscavit Kennerley: ex insulâ Vancouver, specimen fractum portavit Forbes.

Texturâ *Lucinopsei* convenit; cardine, *Clementiæ*; formâ, *Saxidomo* squallido juniori.

Genus PSEPHIS.*

Animal Veneri simile, sed viviparum.

Testa inter *Pachydesma* et *Circem* intermedia; lævis, seu concentrice sculpta, nitida; cardine dentibus iii.—iii. variantibus, quorum anticus sæpe porrectus; marginibus haud crenulatis, dorsali intus sulcato; sinu pallii parvo, lato, interdum obsoleto; ligamento tenui, umbones obtusus circum-eunte.

* Th. *Lucinæ*, & calculus.

Exemplum typicum : *Psephis Lordi* = *Chione Lordi*, Baird, Proc. Zool. Soc., 1863, p. 69.

Hab.—In sinu Pugetiano primum legit Kennerley : postea, in insulâ Vancouver legit Lord : in insulâ Catalinâ, Cooper.

VENUS KENNERLEYI, n. s.

V. t. ovali, solidâ, calcareâ, squalide albâ ; marginibus æqualiter excurvatis ; valde inæquilaterali, haud tumidâ ; rugis concentricis, validis, crebris, irregularibus, haud acutis, instructâ ; interstitiis concentrice striatis, (t. juniore suborbiculari, striis radiantibus ornatâ ;) lunulâ lineis impressis definitâ, rugis appressis instructâ ; areâ haud definitâ ; intus, dentibus utrâque valvâ iii., quorum alterâ i. alterâ ii. plus minusve bifidis ; fulchro valido ; cicatricibus muscularibus validis ; sinu pallii parvo, anguste angulato ; marginibus tenuiter crenulatis. Long. 2·5, lat. 1·8, alt. 1·25.

Hab.—In sinu Pugetiano legit Kennerley : testas juniores, "*V. astartex*" Midd. similes, legerunt juxta Necah Bay, Swannii Indianuli.

ASTARTE (? COMPRESSA, var.) COMPACTA.

A. t. "*A. compressa*" simili, sed compactâ, minus transversâ ; liris concentricis expressis, paucioribus, marginem posticam versus obsoletis ; umbonibus valde prominentibus, acutioribus ; marginibus dorsalibus rectis, ad angulum 100° ; lunulâ minus impressâ, longiore ; areâ ligamentali minus angulatâ ; dente laterali antico valvâ dextrâ magis extante. Long. 4, lat. 33, div. 21.

Hab.—In sinu Pugetiano specimen unicum piscavit Kennerley.

LUCINA TENUISCUPTA, n. s.

L. t. "*L. Mozatlanicæ*" formâ simili ; sed magis convexâ, sculpturâ multo tenuiore ; epidermide olivaceo-cinereâ indutâ ; t. juniore lævi ; postea, rugis incrementi concentricis, plus minusve conspicuis, distantibus, irregularibus ; costulis radiantibus subobsoletis, latis, crebrioribus, antice et postice evanidis ; areâ posticâ vix subquadratâ, haud definitâ : intus, dentibus cardinalibus et lateralibus normalibus, satis extantibus ; ligamento externo, elongato ; cicatrice anticâ normaliter prolongatâ ; margine crenulato. Long. 23, lat. 21, alt. 13.

Hab.—In sinu Pugetiano legit Kennerley.

CRYPTODON SERRICATUS, n. s.

C. t. parvâ, subplanatâ, subcirculari, tenui, albâ, haud flexuosâ ; epidermide tenuissimâ, vix stramineâ, serricatâ, indutâ ; lævi, seu lineis incrementi vix ornatâ, nitente ; suborbiculari, seu ventraliter productâ ; marginibus undique valde et regulariter rotundatis, regione lunulari incurvatâ ; umbonibus antice hamatis ; lunulâ planatâ, haud exacte definitâ : intus, ligamento tenui, omnino celato ; dentibus cardinalibus in utrâque valvâ uno, extante, lateribus nullis ; cicatricibus adductoribus subovalibus, haud prolongatis ; lineâ pallii â margine haud crenato satis remotâ. Long. 16, lat. 18, alt. 1.

Hab.—In sinu Pugetiano legit Kennerley : in insulâ Vancouver, Swannii Indianuli.

PYTHINA RUGIFERA, n. s.

P. t. majore, tenuissimâ, valde transversâ, subquadratâ, vix inæquilaterali ; lineis incrementi et epidermide rugosâ, confertissime laminatâ, ornatâ ; umbonibus latis, valde prominentibus, antice flutentibus ; marginibus, dorsalibus satis regulariter excurvatis, regione posticâ paulum majore ; ventrali planato, seu medio concavo : intus, cardine maxime delicatulo ; dente cardi-
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nali uno minore, claviculâ anticâ laterali inconspicuâ; laterali postico nullo. Long. 77, lat. 44, alt. 3.

Hab.—In sinu Pugetiano specimina duo, (quorum unum fractum,) piscavit Kennerley.

Inter Pythinas typicas et Kellias locum tenet.

TELLIMYA TUMIDA, n. s.

T. t. subtriangulari, subovatâ, lævi, solidiore, tumidiore, valde inæquilaterali; cinereâ, epidermide pallide olivaceâ, concentricè striatâ indutâ; marginibus dorsalibus subrectis, ventrali excurvato: intus, dentibus cardinalibus valvâ sinistrâ validissimis, curtis, extantibus, postico longiore; valvâ dextrâ callositatibus marginalibus, dentibus nullis; cartilagine validiore, ossiculum parvum in medio gerente; cicatricibus adductoribus à cardine valde remotis. Long. 155, lat. 125, alt. 66.

Hab.—In sinu Pugetiano specimen unicum legit Kennerley; apud Neeah Bay, Swan; prope San Diegonem, Cooper.

LEDA FOSSA, Baird.

L. t. "*L. minutæ*" simili; sed parte anticâ minore; posticâ magis porrectâ, angustiore; umbonibus parvis, valde prominentibus; lirulis concentricis crebris, haud expressis, postice et testâ adultâ ventraliter omnino obsoletis; regione siphonali haud liratâ, obtuse biangulatâ, angulis contiguis, subnodosis; regionibus dorsalibus utroque latere lævibus; parte anticâ sulco radiante obsoleto definitâ, liris illuc interdum interruptis: intus, dentibus cardinalibus utroque latere xiv., posticis magis elongatis; sinu pallii minimo.

Hab.—In sinu Pugetiano specimen unicum legit Kennerley: in porto Esquimalto, idem, Lyall.

Proc. Zool. Soc., 1863, p. 71. = *L. foveata*, Baird MS., in Mus. Brit.

PECTEN (?var.) HINDSH.

P. t. "*P. hastati*" varietatibus simili, sed latiore; radiis multo crebrioribus, æqualibus, lævioribus, minoribus, ventraliter bifurcantibus; interstitiis latis, minutissime granulosis; intus albidâ. Long. 16, lat. 17, alt. 57.

Hab.—In sinu Pugetiano juniorem legit U. S. E. E., adultum Kennerley: in insulâ Vancouver legit Lord.

= *P. Fabricii*, Gld. in B. A. Rep., p. 211, (non Phil. = *P. islandicus*, jun.)

TORNATINA EXIMA, Baird.

T. t. cylindraceâ, majore, lævi, pallide albolutescente; epidermide stramineâ, spiraliter tenuissime striulatâ, indutâ; spirâ sæpius erosâ; suturis angustis, acutissime canaliculatis; labro acuto, antice sinuato, medio porrecto, postice exciso, supra suturam valde et acute elevato; aperturâ antice valde elongatâ; columellâ valde excavatâ, antrorsum labrum versus arcuatâ; labio tenui; plicâ angustissimâ, obsoletâ, parieti appressâ. Long. 26, lat. 12.

Hab.—In sinu Pugetiano primum legit Kennerley: postea in insulâ Vancouver legit Lord.

Speciminibus typicis comparitis, conchiliis Kennerlianas *Bullinæ eximie*, Baird, in Proc. Zool. Soc., 1863, p. 67, conspecificas esse certissime constat.

CYLICHNA (?CYLINDRACEA, var.) ATTONSA.

C. t. "*C. cylindraceæ*" aliter simillima; sed postice rotundatâ, haud umbilicatâ, vix lacunatâ, labro regulariter incurvato. Long. 38, lat. 15.

Hab.—In sinu Pugetiano specimen unicum legit Kennerley.

Specimina Californica, à Jewett Cooperque collecta, *C. cylindraceæ* typicæ magis conveniunt.

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DENTALIUM RECTIUS, n. s.

D. t. valde elongatâ, valde tereti, lentissime augente, vix arcuatâ; lævi, tenuiore, albidâ, subdiaphanâ, valde nitente; aperturam versus tenuissimâ. Long. 1·9, lat. ·13.

Hab.—In sinu Pugetiano legit Kennerley.

Varinâ *D. eburneo*, Singaporensi, convenit; sed annulis falacibus caren, texturâ valde differt.

MOPALIA KENNERLEYI, n. s.

M. t. "*M. muscoso*" formâ, indole, sculpturâque simili; sed multo magis elevatâ; plus minusve rubente, plus minusve olivaceo variegatâ, intus pallidâ; granis lateralibus fere æqualibus; liris centralibus haud acutis, interstitiis rariis cancellatis; suturis undatis, apicibus valvarum prominentibus; valvâ anticâ octoradiatâ, radiis granulosis, margine octies inciso; valvis intermediis utrâque semel incisis; valvâ posticâ mucrone obsoleto, sinu postico alto, angustiore, marginibus anticis valde alatis, lateribus posticis semel incisis.

Hab.—In sinu Pugetiano: sp. unicum legit Kennerley.

?MOPALIA SINUATA, n. s.

?M. t. parvâ, subelongatâ, elevatâ, jugo angulato; rubido et cæruleo eleganter maculatâ; valvis elongatis, subquadratis; areis lateralibus costâ angustâ, subelevatâ, granulosa, utrâque definitis; suturis quoque granulosis; totâ superficie clarissime reticulatâ, punctis areis centralibus valde, areis lateralibus et valvis terminalibus modice impressis; valvis terminalibus ut in areis lateralibus sculptis, costis acutis radiantibus, interstitiis reticulatis; valvâ posticâ maxime incisâ, sinu alto, acuto mucronem tenuis haud conspicuam effossâ: intus rosaceâ; marginibus apicinis granulosis totâ longitudine intortis; sinu laminarum suturalium parvo, angusto; laminis externis, valvis centralibus semel incisis; valvâ anticâ, fissuris circiter viii., costis convenientibus; valvâ posticâ, fissurâ laterali utrâque costæ conveniente, postice maxime sinuatâ: limbo pallii coriaceo, pilulis paucis; poro rotundato parvo suturis utroque latere conveniente.

Hab.—In sinu Pugetiano specimina duo legit Kennerley.

Mopaliis typicus structurâ valvæ posticæ convenit: poris suturalibus vix definitis, differt.

?MOPALIA IMPORCATA, n. s.

?M. t. parvâ, valde elevatâ, satis elongatâ; jugo acuto, rectangulato; pallidâ, rufotinctâ; areis lateralibus, costâ elevatâ, dense granulosa, definitis; suturis dense granosis, marginibus intus implicatis; valvâ anticâ circiter octies granoso-costatâ; arearum lateralium et valvæ anticæ interstitiis intricatim ruguloso-indentatis; areis centralibus costis longitudinalibus crebris, validissimis, acutis, subparallelis, interstitiis crenulato-decussatis; valvâ posticâ mucrone haud conspicuo, submarginali, sinu parvo, angusto: intus, sinu laminarum suturalium angusto: valvis centralibus fissurâ unâ; valvâ anticâ fissuris?—; valvâ posticâ fissurâ utrâque unâ, postice sinu parvo, angulato: limbo coriaceo, poris suturalibus aliisque huc et illuc sparsis, minutis, setulis albidis instructis.

Hab.—In sinu Pugetiano specimina duo legit Kennerley.

Ut in ?M. sinuatâ, à Mopaliis typicis differt.

ISCHNOCHITON (TRACHYDERMON) RETIPOROSUS, n. s.

I. t. parvâ, subelongatâ, cinereâ, valde elevatâ, jugo arcuato; valvis subquadratis, apicibus celatis, marginibus suturalibus intus reglicatis; areis lateralibus parum definitis, costulis iii.—vi. obsoletis, rotundatis, huc et 1865.]

illuc granis acutis, expressis, instructis; areis centralibus omnino scrobiculatis, interstitiis parvis, alte punctatis; valvis terminalibus costulis crebris, angustis, acutioribus; mucrone parum conspicuo, antrorsum sito: intus, sinu suturali lato; laminis, utroque latere semel, valvis terminalibus circ. xii. incis: limbo pallii granuloso, granulis confertis, minimis, vix elongatis, vix regularibus, haud sculptis. Long. .44, lat. .28, div. 90°.

Hab.—In sinu Pugetiano specimen unicum legit Kennerley.

Formâ *I. interstincto*, Gld. et *I. scrobiculato*, Midd. convenit; indole sculpturæ differt.

ISCHNOCHITON (TRACHYDERMON) TRIFIDIS, n. s.

I. t. elevatâ, ovali, rubidâ; valvis latis, subquadratis, apicibus vix intortis; areis lateralibus subelevatis, costis obsoletis rotundatis ii.—iv.; areis centralibus punctis distantibus, valde impressis; valvis terminalibus ut in areis lateralibus costatis; valvâ posticâ mucrone submedianâ, haud elevatâ: intus albidâ, subrosaceâ; valvis utrâque latere maculo aurantio elongato ornatis, sinuibus centralibus parvis, expansis; marginibus externis subgrundâ typice obtectis; laminis lateralibus bis, terminalibus circiter xii. incis: limbo pallii granuloso, granis ovalibus, vix imbricatis haud striatis. Long. .75, lat. .45, div. 110°.

Hab.—In sinu Pugetiano specimen unicum piscavit Kennerley.

ISCHNOCHITON (TRACHYDERMON) PSEUDODENTIENS, ? n. s.

I. t. parvâ, ovatâ, subelevata, jugo angulato; cinereâ, olivaceo eleganter maculatâ, suturis albedo et fusco-olivaceo haud regulariter tessellatis; areis lateralibus haud valde definitis; totâ superficie granulis creberrimis instructâ; apicibus valvarum distinctis; mucrone conspicuo, submediano: intus, sinu suturali lato, medio planato: subgrundis parvis, haud extantibus, subspongiosis; laminis lateralibus unofissatis; terminalibus quoad xi., valde obtusis: limbo pallii minute granuloso, granis lævibus, confertis, subovalibus. Long. .44, lat. .24, div. 110°.

Hab.—In sinu Pugetiano legerunt primum *Expediit Explorans*, demum *Kennerley*: in insulâ Vancouver legit *Lord*: apud San Diegonem legit *Cooper*.

Specimini typicali "*Ch. dentiens*, Gouldii" convenit: à diagnosi et figurâ, haud dentiens, differt.

ISCHNOCHITON (TRACHYDERMON) FLECTENS, n. s.

I. t. parvâ, subelongatâ, roseâ, elevatâ; jugo acuto; areis lateralibus vix definitis; marginibus valvarum excurvatis, suturis incurvatis, apicibus valde prominentibus; valvis granulis minutis, haud crebris, subradiatim sparsis, omninoque minutissime punctulatis; mucrone conspicuo, antico: intus, sinu suturali lato, planato; subgrundis haud porrectis; laminis lateralibus unoterminalibus quoad xi.-fissatis: limbo pallii vix minutissime granulato. Long. .35, lat. .24, div. 110°.

Hab.—In sinu Pugetiano legit Kennerley: in insulâ Vancouver legit *Lord*: prope Monterey, Taylor: apud San Diegonem, *Cooper*.

LEPETA CÆCOIDES, n. s.

L. t. "*L. cæce*" simili; t. albâ, ancyloideâ, tenui, juniore subdiaphanâ; apice obtuso, anticè verso; parte posticâ parum excurvatâ; lateribus haud compressis; margine regulariter ovato; totâ superficie sub lente minutissime striatâ, striulis valde distantibus, haud elevatis, haud granulatis, subobsoletis; cicatrice musculari haud impressâ. Long. (t. adolesc.) .45, lat. .37, alt. .19 (speciminis multo majoris pars solum superest: long. .94, lat. .73, alt. .55,) div. 90°.

Hab.—Specimina juniora perpauca viventia in sinu Pugetiano piscavit *Kennerley*: ex insulis Farallonibus adulta affertur, teste Darbshire.

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CALLIOSTOMA (? var.) VARIEGATUM.

C. t. parvâ, conicâ, variegatâ; nucleo rosaceo; anfr. vi. planatis, suturis haud impressis; costulis in spirâ iii. regularibus, nodulosis; nodulis albidis, subdistantibus; interstitiis elegantissime rosaceis; lirulis basalibus viii. haud nodulosis, rosaceo maculatis. Long. .24, long. spir. .13, lat. .21, div. 50°.

Hab.—Puget Sd., sp. un. legit *Kennerley*.

This may prove to be an extreme variety of *Cal. annulatum*, *Martyn*.

MARGARITA (? var.) TENUISCUPTA.

M. t. "*M. Vahlîi*" formâ, colore, et operculo simillimâ; sed striulis spiralis, plus minusve obsoletis cinctâ, quarum iv.-vi. in spirâ monstrantur. Long. .22, long. spir. .11, lat. .13, div. 70°.

Hab.—Puget Sd., *Kennerley*. Neeah Bay, *Swan*.

Except in the very faint spiral sculpture, which does not always appear a constant character in *Margaritæ* (v. *M. undulata* in Fbs. and Hanl. Br. Moll.,) these shells might stand for *M. Vahlîi*, a ? variety of which was found sparingly by Dr. Kennerley. They are sometimes painted with infrasutural flammules of darker ash. Both the smooth and the striated forms have a prominent spiral rib on the whorls of the operculum.

MARGARITA LIRULATA, n. s.

M. t. parvâ, cineraceâ, tenui, tumentiore, nacreo rosaceo; anfr. v. plerumque subdepressis, suturis distinctis; interdum purpureo-fusco pallide maculatâ; lirulis acutis spiralibus haud elevatis, supra valde distantibus, in spirâ ii., circa basim rotundatum circ. viii.; aperturâ subquadratâ; umbilico magno, infundibuliformi, angulato; interstitiis lirularum lævibus, seu ab incrementis epidermidis decussatis: operculo tenuissimo, pallido, subplanato, suturis distinctis. Long. .18, long. spir. .07, lat. .2, div. 80°.

Hab.—Puget Sd., *Kennerley*.

? Var. *α. subelevata*; t. elatiore; colore livido, intensiore; lirulis vix acutis.

Hab.—Puget Sd., *Kennerley*. Neeah Bay, *Swan*.

? Var. *β. obsoleta*; t. ut in ? var. *subelevata*; lirulis evanescentibus; operculo planato, tenuissimo, suturis indistinctis.

Hab.—Neeah Bay, *Swan*.

? Var. *γ. conica*; t. valde elevatâ; lirulis acutis, aliis interdum intercalantibus; umbilico parvo. Long. .33, long. spir. .2, lat. .25, div. 58°.

Hab.—Puget Sd., *Kennerley*, sp. un.

The shells above described constitute what might be called a Darwinian group of specific forms. With the exception of the typical shells dredged by Dr. Kennerley, they are all in very bad condition. The Pugetian specimens are flattened, with open umbilicus, as might be expected from quiet water. Two specimens, however, form an exact transition to the Neeah Bay shells, of which a fair number (var. *α*) were sent by Mr. Swan, though worn and generally decorticated. They are more elevated, with fainter sculpture; and pass, by insensible gradations, into *M. tenuisculpta*, the two principal spiral lines becoming evanescent, and a few others intercalating. In this state (var. *β*) the species can only be separated by the operculum, which is pale and thin, and destitute of the strongly expressed rib of the '*Vahlîi*' group. A third form (var. *γ*) would certainly claim specific rank, but for the intermediate series of *α* and *β*. The diagnostic characters for the whole series are the smooth operculum, the eight narrow riblets round the base, with angular umbilicus and the sharp, narrow, principal riblets above, with wide interspaces, smooth except from the lines of growth, which are principally 1865.]

visible in the epidermis. There may be three (so-called) species in the group, viz.: *lirulata*, *subelevata* and *conica*.

MARGARITA INFLATA.

M. t. tumidâ, tenui, albidâ, narceo pallide aureo; anfr. vi. valde inflatis, suturis ad angulum fere rectum impressis; totâ superficie tenuissime spiraler lirulatâ; lirulis acutis, haud elevatis; in spirâ circ. viii., minoribus sæpe intercalantibus; interstitiis à lineis iacrementi extantibus creberrimis tenuissime decussatis; basi obtuse subangulatâ, striis creberrimis circ. xx. ornatâ; aperturâ subquadratâ; columellâ arcuatâ; umbilico infundibuliformi, lævi, angulato; operculo tenui, planato, suturis distinctis. Long. .44, long. spir. .22, lat. .45, div. 85°.

Hab.—Puget Sd., *Kennerley*. Vancouver, *Lyall*. Neeah Bay, *Swan*.

Only two adult specimens of this remarkably elegant species have been seen. It resembles the shell from Greenland called *M. striata*, *Brod. and Sby.*, in the British Museum, but that under the same name from Behring Straits appears distinct. In many respects it is like *M. undulata*, but differs in the greater swelling of the whorls meeting at a nearly rectangular suture, in the far more delicate sculpture without waves the keeling of the umbilicus and the bend in the pillar which causes a slight spiral hollow inside the umbilical rib.

MESALIA LACTEOLA, ? n. s.

M. t. parvâ, tereti, tenui, albidâ; epidermide tenui, flavidâ, indutâ; anfr. x. rotundatis, suturis valde impressis, lævibus; costis circ. xii. radiantibus, tumentibus, suturam versus evanidis, interstitiis parvis; costis spiralibus rotundatis, costas radiantes transeuntibus, supra spiram iii. validioribus, aliis interdum intercalantibus; costulis suturalibus parvis, antice ii.; basi rotundatâ, vix striatâ; columellâ rectâ, paullum effusâ; labro tenuissimo, parum arcuato. Long. .33, long. spir. .24, lat. .14, div. 30°.

Hab.—In sinu Pugetiano legit *Kennerley*. In insulâ Vancouver legit *Forbes*.

Anne "*M. lacteolæ*" varietas insignis, sculpturæ indole satis discrepans.

MESALIA (? LACTEOLA, var.) SUBPLANATA.

M. t. "M. lacteolæ" simili; sed sculpturâ minus extante anfractibus subplanatis; costis radiantibus pluribus minoribus, costulis spiralibus interdum intercalantibus, aperturam versus sæpe obsoletis.

Hab.—In sinu Pugetiano specimina viventia sed maxime erosa legit *Kennerley*: juxta "Neeah Bay" legerunt Indianuli, Swannii discipuli.

RISSEA COMPACTA, n. s.

R. t. parvâ, rufofuscă, haud turritâ, compactâ, marginibus spiræ *excurvatis*; anfr. nucleosis iii. globosis, lævibus, apice mamillato; normalibus iii. subplanatis, latis; lirulis spiralibus obtusis circiter xv., quarum circ. vi. in spirâ monstrantur, interstitiis vix æquantibus; lirulis radiantibus circ. xxx., peripheriam tenus evanidis, anfractibus primis superantibus, anfractu ultimo sæpe obsoletis; basi rotundatâ, haud (nisi testâ juniore) umbilicatâ; aperturâ suborbiculari, peritremati continuo; operculo tenui, paucispirali, rapidissime angente. Long. .06, long. spir. .04, lat. .045, div. 45°.

Hab.—In sinu Pugetiano satis abundanter legit *Kennerley*; prope Neeah Bay, Swannii discipuli.

DRILLIA INCISA, n. s.

D. t. "D. inermi" formâ et indole simili; sed cinereâ, rufofusco copiose spiraler lineatâ; anfr. nucleosis majoribus, subplanatis; anfr. normalibus vii. subplanatis, spiraler subobsolete cœlatis; sulcis in spirâ circiter viii., quarum quarta radiatim sinuata; canali quoad genus longiore, apertâ; co-

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lumellâ arcuatâ; labio distincto; labro tenui, parum sinuato; epidermide subfugaci, laminis incrementi subrugosâ; operculo pyriformi, haud angulato, apice antico. Long. 1.13, long. spir. .65, lat. .4, div. 30°.

Hab.—In sinu Pugetiano legit Kennerley: prope "Neeah Bay" legerunt Swannii Indianuli.

A Drilliis typicis sinu minimo et operculo haud angulato conspicue differt: Clionellæ, Grayi, magis convenit.

DRILLIA CANCELLATA, ? n. s.

D. t. "*D. incisæ juniore*" simili, sed omnino albedo, sculpturâ elevatâ, haud cœlata epidermide tenui; anfr. nucleosis ? [detritis;] normalibus iv. planatis, suturis distinctis; costulis radiantibus circ. xx. angustis, acutioribus, et costulis spiralibus subæquantibus, quarum circiter v. in spirâ monstrantur, eleganter cancellatis, ad intersectiones subnodulosas; aperturâ obovali, in canalem longiorem, subarcuatam, apertam, productâ; labro acuto, medio producto, ad costulam spiralem ex suturâ tertiam eleganter sinuato, sinu altiore.

Hab.—In sinu Pugetiano duo specimina legit Kennerley; quorum altero labium subcallosum, altero planatum.

MANGELIA LEVIDENSIS, n. s.

M. t. rudi, fuscâ, elatiore; anfr. nucleosis iii. subelongatis, vertice haud mamillati; anfr. normalibus vi. subplanatis, suturis distinctis, quarum primi costis radiantibus circiter xii. latis, interstitiis parvis, et costulis spiralibus crebrioribus, quarum v. magis insculptæ supra costas transeunt, rude ornantur; anfr. ultimis sculpturâ subobsoletâ; aperturâ elongatâ, subquadratâ in canalem brevem arcuatim productâ, intus hepaticâ; labro juxta suturam vix sinuato; labio vix conspicuo. Long. .86, long. spir. .53, lat. .29, div. 27°.

Hab.—In sinu Pugetiano legit Kennerley: prope "Neeah Bay" collegit, per Indianulos, Swan.

A Mangeliis typicis columellâ tortâ differt.

BELA EXCURVATA, ? n. s.

B. t. "*B. Trevelyianæ*" simili, sed albâ, curtiore, marginibus spiræ valde excurvatis; anfr. nucleosis ? [erosis;] dein iv. normalibus, subplanatis, fere rectangulatis prope suturas tabulatis; costis obtusis radiantibus circiter xviii., medio anfractûs et prope suturam obsoletis, postice retrorsum valde arcuatis; sulcis spiralibus subdistantibus impressis, costas superantibus, in spirâ circiter v., postice evanidis, antice crebrioribus; aperturâ longius ovali, antice brevissime canaliculato, postice alte sinuato; labro acuto, medio valde excurvato; columellâ regione labii eroso. Long. .28, long. spir. .13, lat. .15, div. 55°.

Hab.—In sinu Pugetiano ante decessum prematuram specimen unicum piscavit Kennerley, eheu deploratus!

EULIMA MICANS, ? n. s.

E. t. "*E. politæ*" similimâ, sed minore; anfr. nucleosis stylinis, apice subdecliviter sito; anfr. normalibus xii. omnino planatis, maxime nitentibus, suturis nullis; albidâ, rosaceo tinctâ; basi arcuatim rotundatâ; aperturâ ovali; labro postice, et paullum antice sinuato, calloso; labio calloso; columellâ vix tortâ. Long. .52, long. spir. .36, lat. .16, div. 25°.

Hab.—In sinu Pugetiano specimen juniore legit Kennerley. Juxta Neeah Bay idem legerunt Swannii Indianuli. Plurimos adultos viventes inter S. Pedronem et S. Diegonem, in insulâ quoque Catalinam piscavit Cooper.

An Eu. politæ varietas Pacifica?

1865.]

OCINEBRA INTERFOSSA.

O. t. satis elongata, purpureo-fuscâ; anfr. nucleosis ii., lævibus, elongatis; anfr. normalibus v. convexis, suturis valde impressis; costis radiantibus subvaricosis circ. xi., et spiralibus subæquantibus, quarum iii.-v. in spirâ monstrantur, decussatâ; interstitiis altis, quadratis, laminulis incrementi, et interdum costulis spiralibus obtusis intercalantibus, sæpe ornatis; aperturâ ovatâ, labro (t. adultâ) intus dentato; canali satis longâ, sæpius clausâ. Long. .85, long. spir. .4, lat. .45, div. 60°.

Hab.—Neeah Bay, *Swan*: Vancouver, *Lord*, (named *Fusus orpheus*, as of Gld. in Br. Mus.)

Variat.: t. *atropurpureâ*; costis spiralibus distantibus, in spirâ duabus, foveis majoribus. Variat quoque t. albido zonatâ.

? CHRYSODOMUS RECTIROSTRIS, n. s.

?Chr. t. parvâ, albida, carneo maculatâ, gracili epidermide tenui, corneâ indutâ; anfr. nucleosis? . . . [decollatis;] anfr. normalibus vi. planatis, suturis parum distinctis; adolescente, costulis radiantibus circiter xiv. latis, haud expressis, adultâ obsoletis; lineis spiralibus haud conspicuis; aperturâ elongato-pyriformi, in canalem valde productum, apertum, rectum, subito attenuatâ; labro acuto, parum arcuato, haud sinuato; labio inconspicuo. Long. .88, long. spir. .43, lat. .32, div. 33°.

Hab.—In sinu Pugetiano, specimen unicum legit Kennerley.

Aspectu Belam, formâ Perronam, nisi labro haud sinuato, commemorat: characteribus plurimis subgeneri *Siphoni* convenit.

Synopsis of the Genus POMOXYS, Raf.

BY THEODORE GILL.

In order to dissipate part of the confusion into which the nomenclature of this genus has fallen, and to make known several new species, the present article is submitted.

Genus POMOXYS, (Raf.)

- I. Caudal peduncle with its height in front (.14) greater than its length (.11—.12); anal fin extending backwards nearly to base of caudal. P. brevicauda.
- II. Caudal peduncle longer (.13—.15) than high (.11—.13); anal fin not passing beyond the second third of peduncle.
 - Height exceeding three-tenths (.31) of length; head less than three-tenths (.24). P. intermedius.
 - Height less than averaging three-tenths (.29) of length, and scarcely longer than head.
 - Caudal peduncle slender (.15 long, .11½ high).
 - First dorsal spine less than half (.02½) an eye's diameter. P. storerius.
 - Caudal peduncle stout, little longer than high (.13½ long, .13 high). First dorsal spine equal to two-thirds (.04½) of an eye's diameter. P. protacanthus.

POMOXYS BREVICAUDA, Gill.

D. VI. 15. A. VI. 17. P. 15.

6

Scales (12—29—) 42 —,*

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* The twelfth and twenty-ninth scales of the lateral line, respectively, correspond with the vertical of the anterior and posterior ends of the dorsal fin. The total number of scales through which the lateral line runs, exclusive of those on the caudal fin, is forty-two. At the region of greatest height, there are six rows above and fourteen below the lateral line.

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